cefEPIME

2020

Newborn use only

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Alert	The Antimicrobial Stewardship team recommends this drug be listed as restricted.	
	Aminoglycosides may be inactivated by some penicillin and cephalosporin antibiotics. Where	
	feasible, give at separate sites or separate the administration time of the antibiotics. If this is not	
Indication	possible, flush the line well before and after giving each antibiotic.	
Indication	Treatment of infections with serious gram-negative organisms including extended spectrum beta- lactamase (ESBL) producing E. coli and Klebsiella species and Enterobacteriaceae, Pseudomonas	
Action	species, Citrobacter species and Serratia species. Fourth-generation cephalosporin with broad-spectrum activity against gram-negative and gram-	
ACTION	positive bacteria. Also active against methicillin sensitive staphylococcus aureus and streptococcus	
	pneumoniae. Inhibits bacterial cell wall synthesis by binding to penicillin-binding proteins.	
Drug type	Cephalosporin antibiotic.	
Trade name		
Presentation	Cefepime Alphapharm, Cefepime Kabi, Cefepime-AFT, Omegapharm Cefepime	
Dose	1g and 2g vial powder for injection40 mg/kg/dose 8 hourly (1) (refer to practice points section)	
Dose adjustment	Therapeutic hypothermia: No specific information.	
	ECMO: Therapeutic drug monitoring may be beneficial. (2)	
	Renal impairment: Consider adjusting the dosage or interval. (3)	
	Hepatic impairment: No information.	
Maximum dose		
Total cumulative	No information.	
dose		
Route		
Preparation	Add 8.7 mL of sodium chloride 0.9% or glucose 5% to 1g vial to make a 100mg/mL solution OR	
	Add 17.4 mL of sodium chloride 0.9% or glucose 5% to 2g vial to make a 100mg/mL solution	
	Further dilute	
	Draw up 3 mL (300 mg of cefepime) and add 12 mL of sodium chloride 0.9% or glucose 5% to make	
	a final volume of 15 mL with a final concentration of 20 mg/mL. (Note approximate powder displacement volumes 1g = 1.3mL and 2g = 2.6mL)	
Administration	Infuse over 30 minutes (4, 5)	
Monitoring	Hypersensitivity reactions, renal function.	
Contraindications	Hypersensitivity to cephalosporins or components of the formulation.	
contraindications	Contraindicated in patients with severe immediate (IgE mediated) or severe delayed (T-cell	
	mediated) hypersensitivity to penicillins. Seek specialist advice for patients with non-severe	
	immediate hypersensitivity to penicillins.	
Precautions	Renal impairment: Mainly excreted renally. Clearance is reduced. (6)	
Drug interactions	Other nephrotoxic drugs such as aminoglycosides and potent diuretics such as furosemide.	
	Aminoglycosides may be inactivated by some penicillin and cephalosporin antibiotics. Where	
	feasible, give at separate sites or separate the administration time of the antibiotics. If this is not	
	possible, flush the line well before and after giving each antibiotic.	
	In renal impairment separate the administration of the antibiotics for the longest duration that is	
	practical.	
Adverse	Hypersensitivity reactions including anaphylaxis, bronchospasm, urticaria (6)	
reactions Nephrotoxicity		
	Seizures and encephalopathy	
Compatibility	Compatible fluids: Glucose 5%, sodium chloride 0.9%, glucose in sodium chloride solutions, glucose	
	5% in Hartmann's. (7, 8)	
	Y-site: amikacin, amiodarone, amphotericin B lipid complex, ampicillin, azithromycin, calcium	
	gluconate, dexamethasone sodium phosphate, dexmedetomidine hydrochloride, esmolol	
	hydrochloride, fluconazole, furosemide, gentamicin, hydrocortisone sodium phosphate,	
	hydrocortisone sodium succinate, insulin, leucovorin, linezolid, methylprednisolone sodium	
	succinate, metoprolol tartrate, metronidazole, pamidronate disodium, pancuronium bromide,	
	piperacillin sodium/tazobactam sodium, potassium acetate, ranitidine, remifentanil, rocuronium	

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	bromide, sodium bicarbonate, sulfamethoxazole/trimethoprim, tobramycin sulfate, valproate		
	sodium, vasopressin, zidovudine.		
	Variable compatibility (consult product information, local resources or pharmacist) for: dobutamine		
	hydrochloride, morphine sulfate, vancomycin hydrochloride		
Incompatibility	Y-site: acetylcysteine, aciclovir, amphotericin B liposome, ciprofloxacin, ganciclovir, labetalol		
	hydrochloride, magnesium sulfate, mannitol, midazolam hydrochloride, pantoprazole sodium,		
	phenytoin sodium, vecuronium.		
Stability	Reconstituted solutions should be used immediately.		
	If necessary, reconstituted solutions are stable for 24 hours at 2 to 8 °C.		
	The solution is clear and colourless to pale yellow or amber. May darken when stored but can still		
	be used		
Storage	Cefepime vials should be stored in original cartons below 25°C. Protect from light.		
	Reconstituted solutions are stable for 24 hours at 2 to 8 °C. Protect from light.		
Excipients	Arginine.		
Special			
comments			
Evidence	Refer to full version.		
Practice points	Refer to full version.		
References	Refer to full version.		

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Authors Contribution

Srinivas Bolisetty
Himanshu Popat, Srinivas Bolisetty
Brendan McMullan, Karel Allegaert, Thomas Young
Eszter Jozsa, Samantha Hassall, Kirsty Minter
Carmen Burman, Wendy Huynh
Nilkant Phad, John Sinn, Bhavesh Mehta, Michelle Jenkins, Thao Tran,
Cindy Chen
Thao Tran, Srinivas Bolisetty
Cindy Chen, Ian Callander
Srinivas Bolisetty